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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09 769,074	01 25 2001	Teruhiro Nakasogi	14216	7139
7,51	90 07.16.2003			
RICHARD L. CATANIA, Esq. SCULLY, SCOTT, MURPHY & PRESSER 400 Garden City Plaza			EXAMINER	
			NGO, HUYEN LE	
Garden City, NY 11530			ART UNIT	PAPÉR NUMBER
			2871	

DATE MAILED: 07/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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- <u></u> -		Application No.	Applicant(s)
		09/769,074	NAKASOGI ET AL.
	Office Action Summary	Examiner	Art Unit
		Julie-Huyen L. Ngo	2871
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet w	th the correspondence address
A SHOTHE NO Exter after - If the - If NO Failur - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a repreperiod for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing days that term adjustment See 37 CFR 1 704(b)	136(a) In no event, however, may a rolly within the statutory minimum of thin will apply and will expire SIX (6) MON e. cause the application to become AE	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  SANDONED (35 U S C § 133)
Status	g patent term adjustment. See 37 GFR 1 704(b)		
1)	Responsive to communication(s) filed on	<u> </u>	
2a)	This action is <b>FINAL</b> . 2b)⊠ Th	his action is non-final.	
3)	Since this application is in condition for allow closed in accordance with the practice under		
· · ·	on of Claims		
,	Claim(s) <u>1-26</u> is/are pending in the application		
<u></u>	4a) Of the above claim(s) <u>9-26</u> is/are withdraw	in from consideration.	
· · ·	Claim(s) is/are allowed.		
·	Claim(s) <u>1-8</u> is/are rejected.		
	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction and/o on Papers	or election requirement.	
	The specification is objected to by the Examine	er.	
/	Γhe drawing(s) filed on is/are: a)□ acce		he Examiner.
٠,٣	Applicant may not request that any objection to the		
11)[	The proposed drawing correction filed on		
	If approved, corrected drawings are required in re	eply to this Office action.	
12)	The oath or declaration is objected to by the Ex	xaminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)🖸	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)[	⊠ All b) Some * c) None of:		
	1. Certified copies of the priority documen	ts have been received.	
	2. Certified copies of the priority documen	ts have been received in A	pplication No
* S	3. Copies of the certified copies of the price application from the International Buse the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).	
14) 🗌 A	cknowledgment is made of a claim for domest	tic priority under 35 U.S.C.	§ 119(e) (to a provisional application)
	)  The translation of the foreign language process. The translation of the foreign language process.	, ,	
Attachment	•	· •	
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
Patent and Tr	ademark Office	<del></del>	

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#### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election **without** traverse of group I (in Paper No. 8) is acknowledged.

The elected invention drawn to a Liquid crystal device that reads on claims 1-8.

Accordingly, the remaining claims 9-26 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

### Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The abstract of the disclosure is objected to because it not clearly states which is new in the art to which the invention pertains as claimed. Correction is required. See MPEP § 608.01(b).

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimada (US5710609).

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Shimada teaches (Figs. 1-3) forming a liquid crystal device comprising: (Claim 1)

- A pair of substrates 1 and 2;
- Electrodes 3 and 4 formed on each one side of said substrates;
- Alignment films 5 and 6 for homogeneous alignment, formed on said electrodes and facing each other by a uniform space; and
- A liquid crystal material 10 including liquid crystal molecules each having a
  negative dielectric anisotropy, said liquid crystal material filled in a gap formed
  between the alignment films (col. 4, lines 34-39)

#### Wherein

### (Claim 2)

 Polarizer 11, 12 are disposed on each of the other side of said substrates and longer axes of said liquid crystal molecules form about 45 degrees to polarization axes of the polarizers (col. 1 lines 61-65)

## (Claim 3)

 Said liquid crystal molecules are vertically oriented with respect to said substrates (col. 4 lines 41-44)

#### (Claim 4)

 Said alignment films are polyimide films for homogeneous alignment (col. 7 lines 41-44) Application/Control Number: 09/769,074

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### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada (US5710609).

Shimada teaches all limitations recited in claims 5-8 except for a domain of said liquid crystal device is divided.

It is well known in the art for a domain of a liquid crystal device be divided to form multi-domains for increasing view angle.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further divide the domain of Shimada liquid crystal device to have multi-domains for increasing view angle.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Hirata et al. (US6013335A) disclose a liquid crystal layer includes two or more liquid crystal layer regions of different aligning conditions, and at least one of the alignment films has surface tensions which are different from each other in surface

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regions thereof corresponding to the respective liquid crystal layer regions of different aligning conditions.

Chen (US6097463A) discloses a liquid crystal display device capable of realizing an in-pixel divided-alignment structure by as simple a process as possible. Each of alignment films respectively provided on a pair of transparent substrates includes a first homeotropic alignment film rubbed, and a second homeotropic alignment film not rubbed and deposited on the first homeotropic alignment film.

Woo et al. (US6191836B1) disclose a method for fabricating a liquid crystal cell and related device includes providing an alignment layer of a light sensitive material on a substrate; and exposing the alignment layer to unpolarized or partially polarized light, to provide pretilt for the molecules of the alignment layer.

#### Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (703) 305-3508. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (703) 305-3492.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

July 10, 2003

Patent Examiner Art Unit 2871